Newzen Consultants Bangalore

NC/QC/YPD/W3-01/2017-18/AL-C1 Date: 05-03-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing cement concrete roads to 1st A main 2nd Main and cross roads at Attur Layout in Ward No.03.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Mr. Achutha Murthy K, Bangalore.

Asst Executive Engineer Project Division Yelahanka Zone Bangalore

PHYSICAL TESTS ON CEMENT

Brand : JAYPEE
Grade * : 53,
Type : O.P.C

TABLE 1.1

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**158 min**	Shall not be less than 30 min
2	Final setting time	**265 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.45 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**3.02 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**29.43 N/Sq mm**	Shall not be less than 27 N/Sqmm

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For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YPD/W3-01/2017-18/AL-PCC1 **Date: 05-03-2018**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Providing cement concrete roads to 1st A main 2nd Main and cross roads at Attur Layout in Ward No.03.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Mr. Achutha Murthy K, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	65.47	0 -20	30- 70
10mm	19.32	0 -5	10- 35
4.75mm	3.63	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.66	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	85.35	60-95	75-100	85-100	
01.18	69.22	30-70	55-90	75-100	
600.mic	47.45	15-34	35-59	60-79	
300.mic	19.30	5-20	8-30	12-40	
150.mic	5.53	0-10	0-10	0-10	

Assst. Executive Engineer Project Division Yelahanka Zone Bangalore

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For Newzen Consultants Bangalore

Proprietor

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EMAIL:newzen576@gmail.com

NC/QC/YPD/W3-01/2017-18/AL-C2 Date: 08-03-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing cement concrete roads to 1st A main 2nd Main and cross roads at Attur Layout in Ward No.03.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Mr. Achutha Murthy K, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : JAYPEE
Grade * : 53,
Type : O.P.C

TABLE.1.

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**165 min**	Shall not be less than 30 min
2	Final setting time	**269 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.73%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.35 mm**	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	**28.76 N/Sq mm**	Shall not be less than 27 N/Sqmm

Asst. Executive Engineer Project Division Yelahanka Zone Bangalore

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For Newzen Consultants Bangalore

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EMAIL:newzen576@gmail.com

NC/QC/YPD/W3-01/2017-18/AL-PCC2 **Date: 08-03-2018**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Providing cement concrete roads to 1st A main 2nd Main and cross roads at Attur Layout in Ward No.03.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Mr. Achutha Murthy K, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**68.35**	0 -20	30- 70
10mm	**18.16**	0 -5	10- 35
4.75mm	**4.36**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**98.12**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**86.86**	60-95	75-100	85-100	
01.18	**63.80**	30-70	55-90	75-100	
600.mic	**49.63**	15-34	35-59	60-79	
300.mic	**18.45**	5-20	8-30	12-40	
150.mic	**7.48**	0-10	0-10	0-10	

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For Newzen Consultants Bangalore

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EMAIL:newzen576@gmail.com

NC/QC/YPD/W3-01/2017-18/AL-C3 Date: 13-03-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing cement concrete roads to 1st A main 2nd Main and cross roads at Attur Layout in Ward No.03.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Mr. Achutha Murthy K, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : JAYPEE
Grade* : 53,
Type : O.P.C

TABLE 01:

Sl. No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**168 min**	Shall not be less than 30 min
2	Final setting time	**272 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.76%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**3.01 mm**	Shall not be more than 10 mm
5	Compressive strength c) 3 days (average of three results)	**29.65 N/Sq mm**	Shall not be less than 27 N/Sqmm

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

For Newzen Consultants Bangalore
Proprietor

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Newzen Consultants Bangalore

NC/QC/YPD/W3-01/2017-18/AL-PCC3 **Date: 13-03-2018**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Providing cement concrete roads to 1st A main 2nd Main and cross roads at Attur Layout in Ward No.03.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Mr. Achutha Murthy K, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	68.35	0 -20	30- 70
10mm	18.55	0 -5	10- 35
75mm	5.65	------	0- 5

Asst. Executive Engineer Project Division Yelahanka Zone Bangalore

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.75	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	85.25	60-95	75-100	85-100	
01.18	63.60	30-70	55-90	75-100	
600.mic	49.33	15-34	35-59	60-79	
300.mic	18.26	5-20	8-30	12-40	
150.mic	7.25	0-10	0-10	0-10	

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For Newzen Consultants Bangalore

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EMAIL:newzen576@gmail.com

NC/QC/YPD/W3-01/2017-18/AL-FA1

Date: 17-03-2018

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{Project*: Providing cement concrete roads to 1st A main 2nd Main and cross roads at Attur Layout in Ward No.03.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Mr. Achutha Murthy K, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**97.34**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**85.52**	60-95	75-100	85-100	
01.18	**69.43**	30-70	55-90	75-100	
600. mic	**51.65**	15.34	35-59	60-79	
300.mic	**22.10**	5-20	8-30	12-40	
150.mic	**6.26**	0-10	0-10	0-10	

Asst. Executive Engr. Project Division Yelahanka Zone Bangalore

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**16.86 %**	-----
2	Silt Content	----	**0.86 %**	Not more than 8%
3	Specific Gravity	----	**2.62**	-------

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Newzen Consultants Bangalore

NC/QC/YPD/W3-01/2017-18/AL-CA1 **Date: 17-03-2018**

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Providing cement concrete roads to 1st A main 2nd Main and cross roads at Attur Layout in Ward No.03.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Mr. Achutha Murthy K, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

Asst. Executive Engineer Project Division Yelahanka Zone Bangalore

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	**100.00**	100.00	100.00
20 mm	**97.30**	85-100	90 - 100
10 mm	**37.45**	0 - 20	25 - 55
4.75 mm	**7.25**	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	**Requirements** as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	**20.60%**	Not to exceed 25 %
2.	Crushing value	**24.33 %**	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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For Newzen Consultants Bangalore

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Newzen Consultants Bangalore

NC/QC/YPD/W3-01/2017-18/AL-S1 **Date: 17-03-2018**

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 10 mm **TMT Steel.**

{Project*: Providing cement concrete roads to 1st A main 2nd Main and cross roads at Attur Layout in Ward No.03.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Mr. Achutha Murthy K, Bangalore.

Asst. Executive Engineer, Project Division, Yelahanka Zone, Bangalore

TABLE -1

Sl No.	Details	For 10 mm	
		Test Results	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**10.0 mm**	10.0 mm
02	Observed Wt/m Length **Kg/m**	**0.684**	0.567
03	Proof stress/Yield stress, fy , **N/mm^2**	**554.0**	500.0
04	Bend/ Re bend Test	**Ok**	- ---
05	Percentage of Elongation, %	**22.50**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**657.0**	545.0

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For Newzen Consultants Bangalore

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Newzen Consultants Bangalore

NC/QC/YPD/W3-01/2017-18/AL-CB1

Date: 28-03-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing cement concrete roads to 1st A main 2nd Main and cross roads at Attur Layout in Ward No.03.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Mr. Achutha Murthy K, Bangalore.

Asst. Executive Engineer Project Division Yelahanka Zone Bangalore

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	21-03-18	28-03-18	07	22500	385	17.11	**16.67**
	002	"	"	"	"	365	16.22	
	003	"	"	"	"	375	16.67	

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